

**DESERT HILLS WASH  
FCD GAGE ID# 4898**

**STATION DESCRIPTION**

**LOCATION** - The gage is located just west of 16th Street on Joy Ranch Road. Latitude 33° 49' 41.6" North; Longitude 112° 02' 54.0" West. Located in S28 T6N R3E, in the New River SE 7.5-minute quadrangle.

**ESTABLISHMENT** - The gage was installed on March 2, 2006.

**DRAINAGE AREA** – 1.0 mi<sup>2</sup>

**GAGE** - The gage is a pressure transducer type instrument. The PT diaphragm is at gage height 0.50 feet, levels of March 30, 2006. The PT is located on the upstream (north) side of Joy Ranch Road.

There is no crest-stage gage at this site.

There is no staff gage at this site.

**ZERO GAGE HEIGHT** – Zero gage height is defined as the bottom of the left upstream culvert.

**HISTORY** – Gaging established on March 2, 2006. No previous gaging history at this location.

**REFERENCE MARKS**

RP-1 is a rebar stake located near the station tube. Elevation 8.06 feet gage height, levels of March 30, 2006.

RP-2 is the top bolt holding the PT housing to the culvert headwall. Elevation 1.27 feet gage height, levels of March 30, 2006.

**CHANNEL AND CONTROL** - The channel is natural up and downstream from the culverts under Joy Ranch Road. The channel is nearly straight in this reach near the culverts.

The control for the gage is the three-barrel culvert. Gaging is on the upstream side of the culvert. There is one 5-foot diameter culvert and two 4-foot diameter culverts all constructed of corrugated steel. Culvert lengths are 72 feet.

**RATING** - The current rating is Rating #1, dated March 2, 2006. The rating was developed from collected site data in an HY-8 culvert analysis model.

**DISCHARGE MEASUREMENTS** - Direct measurements could be made in the natural wash downstream from the culvert.

**POINT OF ZERO FLOW** - The PZF is at about 0.6 feet gage height.

**FLOODS** – A flow of 207 cfs at 4.25 feet gage height occurred on December 1, 2007.

**REGULATION** - None known.

**DIVERSIONS** - None known

**ACCURACY** - Fair

**JUSTIFICATION** - Monitor flows in support of the Desert Hills flood warning plan.

**UPDATED** -                July 14, 2011  
                                     D E Gardner